**Unit 7 Map (Cell Signaling)**

Ms. Ottolini, AP Biology

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| **Topic** | **Learning Target** | **Where did I learn this?**  (What resources should I use to study?) | **How well do I know this?**  (scale of 1 to 3, with 3 indicating a high level of understanding) |
| The Basics of Cell Signaling | 1. You will be able to describe what happens in each of the three main steps of cell signaling—reception, transduction, and response—and provide examples of each. |  |  |
| 2. You will be able to compare/contrast cell signaling between cells that are connected, cells that are separated by a small distance, and cells that are separated by a large distance. |  |  |
| 3. You will be able to compare the purpose of cell signaling in unicellular vs. multicellular organisms and provide examples of each. |  |  |
| 4. You will be able to predict the effects of changes in cell signaling pathways. |  |  |
| Fast Signals across Small Distances – The Nervous System | 5. You will be able to identify the main parts of the human nervous system. |  |  |
| 6. You will be able to outline the steps involved in a reflex arc. |  |  |
| 7. You will be able to identify the parts of a neuron and their functions. |  |  |
| 8. You will be able to describe the movement of a signal (action potential) down the length of a single neuron. |  |  |
| 9. You will be able to describe the movement of a signal from one neuron to another. |  |  |
| Slow Signals across Long Distances – The Endocrine System | 10. You will be able to describe how the secretion of a single hormone from a gland can result in multiple responses in the body. |  |  |
| 11. You will be able to compare / contrast the different types of hormone molecules. |  |  |
| 12. You will be able to explain how various hormones are used in positive and negative feedback loops. |  |  |